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November 15th, 1946
Telephone Number TUcker 2571

Washington Highlights

Aftermath to the overwhelming victory of the Republican party, which gave the G. O. P. control of both House and Senate, was the prediction that Government expenses would be cut $13,000,000,000 next year and taxes cut 20 per cent.

Whether the Republican drive to cut Federal spending and slice taxes could override a possible Presidential veto of any introduced bills is only a matter of conjecture at this time. The Democratic administration has firmly stood for a high tax program, arguing that severe rates are important in any move to balance the budget and begin payment on the $262,000,000,000 national debt.

Republicans now hold 246 House seats out of 435 and 51 Senate posts out of 96. Representative Joseph W. Martin, Jr., of Massachusetts, is slated to be House Speaker to succeed Sam Rayburn of Texas. Senator Arthur H. Vandenberg, of Michigan, will succeed Senator Kenneth D. McKellar, of Michigan, as Senate president.

Carroll Reece, chairman of the Republican National Committee, issued a victory statement giving assurance that the Grand Old Party would live up to its preelection promise to protect the value of the dollar, to reduce taxes and balance the budget. He viewed the election as more than a victory for the Republicans, but rather a victory for the people.

The Independent Petroleum Association of America has asked Congress to amend the Natural Gas Act in such a way as to deny the Federal Power Commission any authority to regulate production or gathering of natural gas, price of gas sold by producers or gatherers or end use of gas.

The meeting recently of the independent group in Fort Worth, Tex., unanimously passed resolutions calling for a compromise within the industry on the question of subsidies for stripper wells and a petition to Congress to limit the jurisdiction of the FPC.

Edwin W. Pauley, President Truman's reparations commissioner, and head of the Petrol Corp., has warned that the Allies will be "courting World War III" if they concur in a reported Russian program concerning reparations from Germany. It has been indicated that the program calls for awarding Russia reparations out of current production in Germany's western zone as a means of securing Soviet cooperation in unifying the German economy.

A meeting in the latter part of November or early in December probably will be held in London for discussions by representatives of the United States and British Government of the Anglo-American oil treaty. The British were the prime movers in scheduling the meeting. A determination of the trend of thinking in United States as to the treaty is sought.

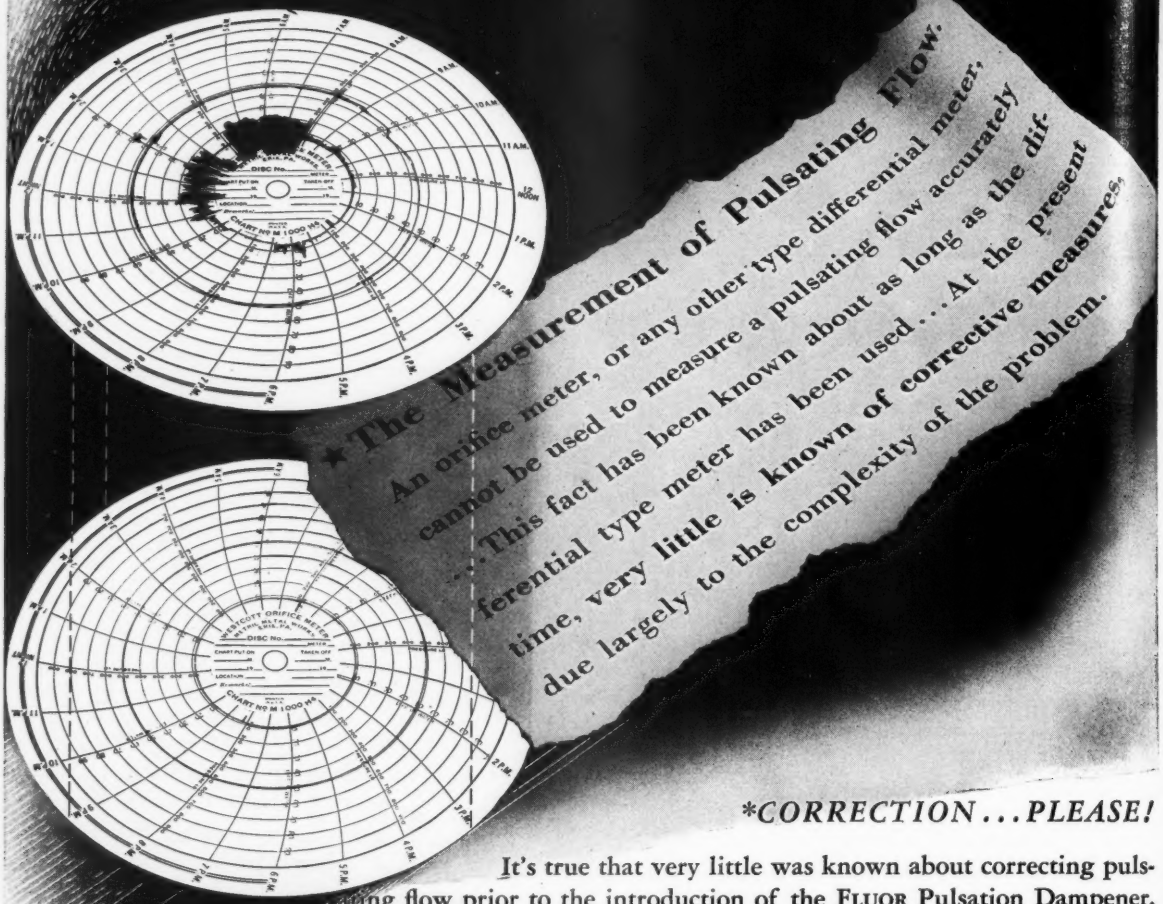
When Congress reconvenes, the Oil and Gas Division is likely to have ready for presentation to the Chief Executive and interested groups, a complete report on its investigation of petroleum and natural gas activities of various Federal agencies. The study will be used as a basis for coordination and unification of Federal oil policy.

The revised oil and gas leasing rules, embodying changes recommended by the petroleum industry at the Denver meeting, has been signed by Undersecretary of the Interior Chapman. It incorporates a number of important amendments.

Members of the petroleum industry are evidencing considerable interest in five technical reports released by the Bureau of Mines dealing chiefly with wartime fuels and lubricants in Germany. The reports are part of a series disclosing results of an investigation in Germany and other sections of Europe by the Technical Oil Mission.

Washington heard that the International Cooperative Petroleum Association came nearer realization in Zurich, Switzerland, when representatives of cooperatives of more than a score of countries indicated eagerness to join such an organization. Howard A. Cowden, president of the Consumer Cooperative Association and the American member of the international board was elected president, as was a five man board of directors, representing United States, France, Sweden, South Africa and Scotland.

DOES PULSATION PLAY TRICKS IN YOUR PLANT?


*The Measurement of Pulsating Flow:
An orifice meter, or any other type differential meter, cannot be used to measure a pulsating flow accurately ... This fact has been known about as long as the differential type meter has been used ... At the present time, very little is known of corrective measures, due largely to the complexity of the problem.

*CORRECTION ... PLEASE!

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Idle Isomerization Unit Converted To Produce Polymer Gasoline

By W. R. Newman
Vice President in Charge of Refining
FRONTIER REFINING COMPANY
Cheyenne, Wyoming

Successful conversion of a wartime butane isomerization unit to a non-selective catalytic polymerization unit has been accomplished by Frontier Refining Company of Cheyenne, Wyoming.

The cost was about $14,000. It was found necessary to install only one piece of new equipment to effect the changeover, which was engineered by Universal Oil Products Company. The job was done in about three weeks by the regular refinery force.

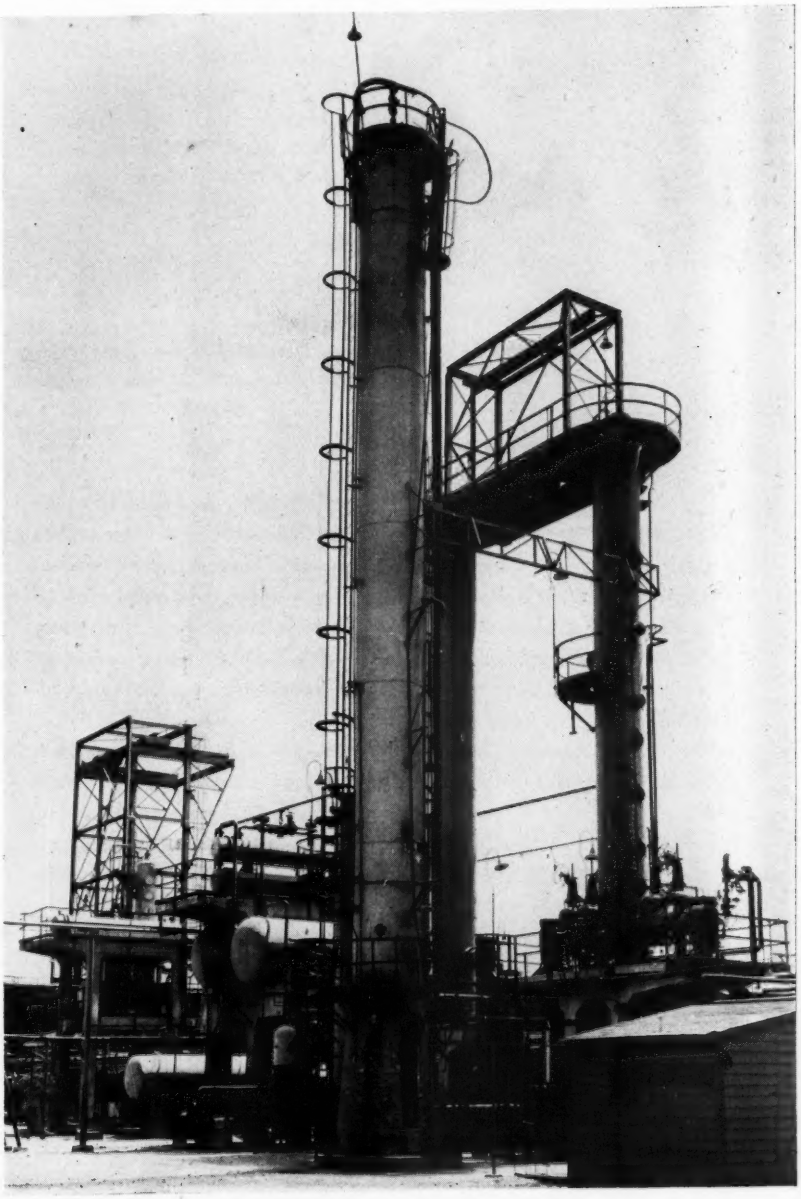
The converted unit has been operating for more than three months, producing 150-200 barrels per day of 10# R.V.P. motor polymer, increasing the total gasoline production of the refinery by 5 to 7 percent and effecting substantial savings in the amount of tetraethyl lead needed to bring the regular and premium grades of Frontier gasoline to the required octane rating.

The No. 2 refinery in which the conversion was made is an aviation gasoline plant built in 1943 for the Defense Plant Corporation. It consists of a crude unit of 3200 bbls. per day capacity, a thermal reforming unit, a fluid catalytic cracking unit with design capacity of 2600 bbls. per day (the smallest commercial unit in the world) a gas concentration system, a U.O.P. hydrogen fluoride alkylation unit, a U.O.P. isomerization unit and a treating plant.

When the aviation gasoline refinery was built, it was interconnected by pipelines to No. 1 refinery, about 500 yards away, to permit interchange of raw materials and products. No. 1 plant, which was built in 1941, consists of a topping unit with charging capacity of 4500 barrels per day, a U.O.P. thermal cracker, capacity 700 barrels per day, an asphalt unit and lube oil blending facilities. It operates on Elk Basin (Wyoming) crude, a black oil of 28 A.P.I. gravity and containing about 2.3 percent sulfur.

Having in the two refineries all the equipment needed to make the various components of 100-octane gasoline, Frontier was a consistent producer of finished fighting aviation motor fuel until the nation's need for this special product ceased.

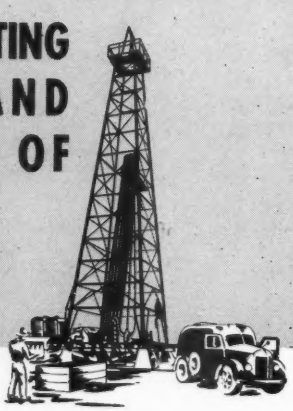
As operated during the war, gas oil from the topping unit in Refinery No. 1 was piped to the government-owned plant, where it was added to the gas oil produced in the topping unit of refinery No. 2 and fed to the catalytic cracking unit. The cracked gases from the thermal cracking unit were fed into the gas concentration unit with the liquid



View of former isomerization reactor, the lower portion of which now contains solid phosphoric acid polymerization catalyst.

What does the Job Require?

YOUR GUN PERFORATING PROBLEMS DEMAND CONSIDERATION OF



DEPTH MEASUREMENTS
•
PERFORATION DENSITY
•
ZONE SELECTIVITY
•
BULLET SIZE
•
BULLET TYPE
•
CASING PROGRAM
•
FORMATION PRESSURE
•
POWDER CHARGE
•
TEMPERATURE

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nd gas products from the catalytic acker, for the purpose of recovering light hydrocarbon fractions to e used as feed for the alkylation nit.

When the war ended, Frontier, ke other refiners, was eager to nvert as speedily as possible to he manufacture of products it uld make to the best advantage r civilian markets. Therefore, it as decided to continue and increase he production of higher grade otor gasoline and at the same me to develop a market for bottled as which would offer an outlet for he C_3-C_4 fractions.

With these objectives in mind, he company leased the facilities of efinery No. 2 from the govern-ent. Of these facilities it was in-nded at first to operate only the id catalytic cracking unit and the s concentration unit, the former make cracked gasoline of superior quality and the latter to stabilize the gasoline and to recover the maximum of C_3-C_4 for bottled gas.

The Frontier management asked Universal to make a study of the gas concentration system with a view to simplifying it and reducing operating costs, and to consider the entire refinery picture as well.

The study disclosed two things:

First, that the cost of operating the existing gas concentration system was very little greater than the cost of operating a simple absorber-stabilizer system, and it had the advantage of recovering the maximum of light hydrocarbons.

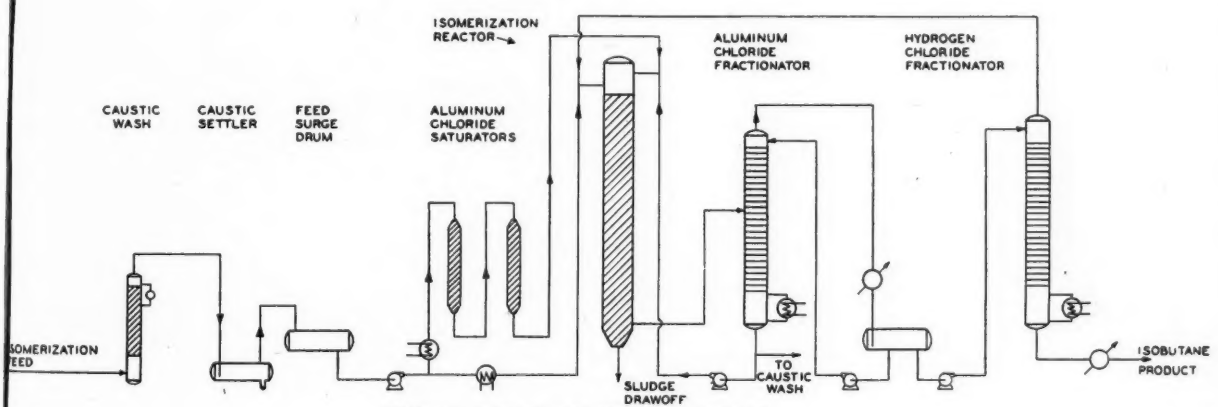
Second, that because of the growing market for gasoline and acceptance of the Frontier product, the light fractions could be converted to polymer gasoline more advantageously than they could be marketed as bottled gas.

A review of the equipment available at the idle alkylation and isomerization units disclosed that a large portion of the equipment in the latter could readily be converted to a polymerization unit. It appeared that the conversion would be simple, requiring few piping changes or additions of equipment. The accompanying flow diagram shows the changes that were made.

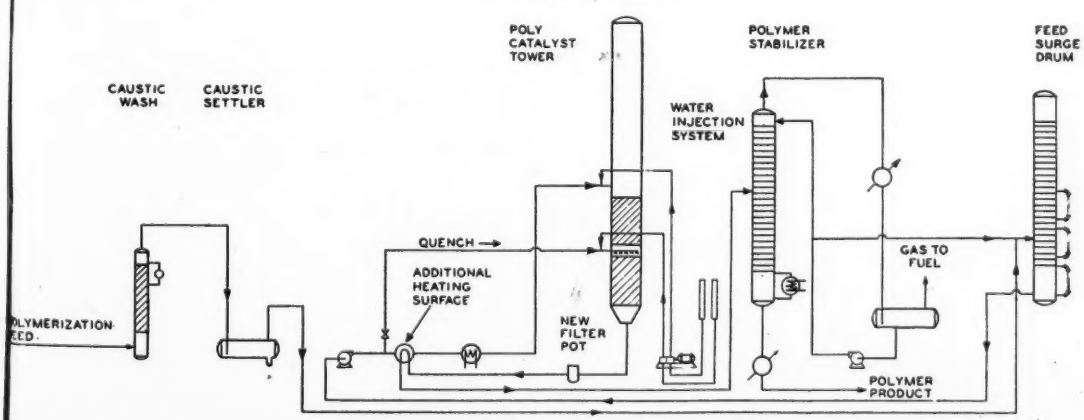
The additional equipment specified for the conversion consisted of three G-fins to afford more surface for heating the feed to the poly reactor, two water-injection pumps for the maintaining of proper catalyst hydration and a new filter pot for collecting the small amount of catalyst fines liberated when new catalyst is placed on stream.

Actually, the filter pot, a vessel of 24" inside diameter, 5' high and

CONVERSION OF ISOMERIZATION UNIT TO POLYMERIZATION UNIT
FRONTIER REFINING COMPANY



ORIGINAL FLOW IN ISOMERIZATION SERVICE



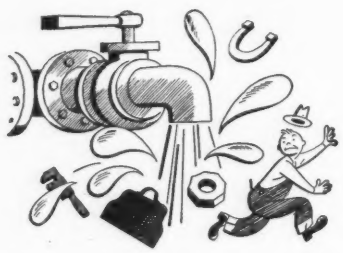
PRESENT FLOW IN POLYMERIZATION SERVICE

Looking Around

By THE OBSERVER

THE BOYS GOT TOGETHER ONE NIGHT

On our new 176-mile pipe line from Kettleman Hills to Los Medanos there are 13 gate valves. A gate valve is a faucet — king size — where the flow of the quarter million barrels of oil in the line can be halted. Those valves are plenty big and husky.



In constructing a pipe line, all kinds of trash is apt to get into the pipe, and when the flushing torrent of water first goes through, some of this trash is washed into the slots or depressions under the valves. Rocks, bits of welding material, or anything hard would cause the failure of the valve to seat tightly. Usually, therefore, the valve has to be taken apart and cleaned out — a time-consuming operation.

Well, it was one of those situations that had waited long enough to be cured by a bright idea. And the men on the job, sitting around one night discussing the details of the day's work, got around to this one. Maybe it was Bill Chandler, who has since been

sent to Arabia, who came up with the jewel of thought. Maybe it was Fred Hampton, construction engineer who followed him. Or maybe it was some hero who will be forever unsung. Somebody said, "Why not fill the depression, or valve-seat, with grease?"

It was done. Grease, topped off with paraffine just as mother tops off a glass of jelly. Not a chunk of welding metal, not a pebble, boulder, lost lunch box, suspender buckle or old shoe could wash into those recesses. When the pipe line had been flushed out, and the valves were tried, up squeezed the grease and out, clean as a hound's tooth. And the valves were tight!

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itable for 500 pounds pressure, as the only piece of new equipent that had to be installed. The her miscellaneous items required ere available in the refinery. Two isting caustic feed pumps were bored and new trim was added r the new water injection service.

Conversion of the reactor tower the isomerization unit to serve the catalyst tower for the polyerization unit was a simple matr, requiring only the fitting of a rating in order to make it possible separate the polymerization catast into two 7-foot beds. Connecons were added to the tower to ermit introduction of a quench ream and water injection between talyst beds. Four thermocouples ere installed for the purpose of easuring catalyst temperatures.

Because of the high sulfur connt of the crude processed at rontier, the light fractions proced in cracking the topped crude nd gas oil are high in hydrogen ulfide and mercaptans. Consequently, it becomes necessary to move the sulfur compounds from he poly plant feed as they would therwise become concentrated in he polymer, thereby reducing its lending value.

The sulfur content of the C_3-C_4 raction when operating the gas oncentration unit for maximum ecovery of propylene and butylenes as known to be of the order of 500 grams of combined H_2S and ercaptans per 100 cubic feet. This ulfur content can be held down to pproximately 100 grams per 100 ubic feet by operating the deethanzer and other columns under conitions that give less than maximum ecovery of propylene.

The use of a regenerative type H_2S removal system was given onsideration as a means for obtaing removal of a major portion of he sulfur compounds from the poly lant feed. However, making provion for such facilities would have elayed the startup of the poly unit nd would have increased the cost f making the conversion. It was ecided therefore to start the operion in such a manner that the gas oncentration unit would reject the ulk of the H_2S and mercaptans om the poly plant feed, postponing the installation of a regenerative type H_2S removal system.

Following is a general summary of the manner in which the gas produced in the catalytic cracker is handled through the gas concentration and polymerization units.

The cracked gasoline and gases from the catalytic cracking unit are fed into the gasoline stripper of the gas concentration system, the bottoms from which is used as absorption oil in the deethanizer into which passes the gaseous and liquid overhead from the gasoline stripper. The deethanizer now, as before, is operated to remove all gases lighter than the propane-propylene fraction.

The deethanizer bottoms stream is sent to the former depentanizer which now acts as debutanizer to separate the C_3-C_4 fraction from the catalytically cracked gasoline. A low vapor pressure gasoline is produced as bottoms from this column in order to recover all possible of the C_4 fraction for polymerization plant feed.

The liquid C_3-C_4 fraction obtained as a net overhead stream from the gas concentration unit depentanizer is pumped through a caustic wash on its way to the polymerization unit for the removal of H_2S and mercaptans. Thus is produced a low sulfur polymer having optimum blending octane number.

The fresh C_3-C_4 feed is collected in a combined feed surge drum where it is mixed with a low olefin content recycle stream from the polymer stabilizer overhead. The recycle stream is used to dilute the olefin content of the feed to the catalyst tower so that the temperature rise occurring in the catalyst beds, as a result of the exothermic polymerization reaction, will not be excessive. Typical analyses of the fresh feed and recycle are shown in Table 1.

The fresh feed normally contains 45-50% C_3 and C_4 olefins. Sufficient recycle is used to obtain a combined feed having an olefin content of approximately 20-22%.

The combined feed is then pumped through an exchanger to recover the heat from the catalyst tower effluent, through a preheater, and then into the catalyst tower. The temperature of the feed to the catalyst tower is controlled to give the desired degree of olefin conversion without exceeding a maximum of 450° F. at any point in the catalyst beds.

Under normal operating conditions when processing a 20% olefin content combined feed the temperature in the catalyst beds will range from 350-380°F. inlet to 430-450°F. outlet.

The conversion of olefins obtained at these temperatures has been of the order of 90-95%.

Effluent from the catalyst tower is fed to the column which was formerly used for aluminum chloride recovery in the isomerization process but is now used as a polymer stabilizer. The net overhead from this stabilizer is released to the fuel system. The condensable portion of the polymer stabilizer overhead stream is used for reflux as well as recycle.

The bottom fraction from the polymer stabilizer is high vapor pressure polymer which is blended directly with the catalytically cracked gasoline Sufficient butanes are retained in the polymer to control the vapor pressure of the total gasoline make of No. 2 refinery.

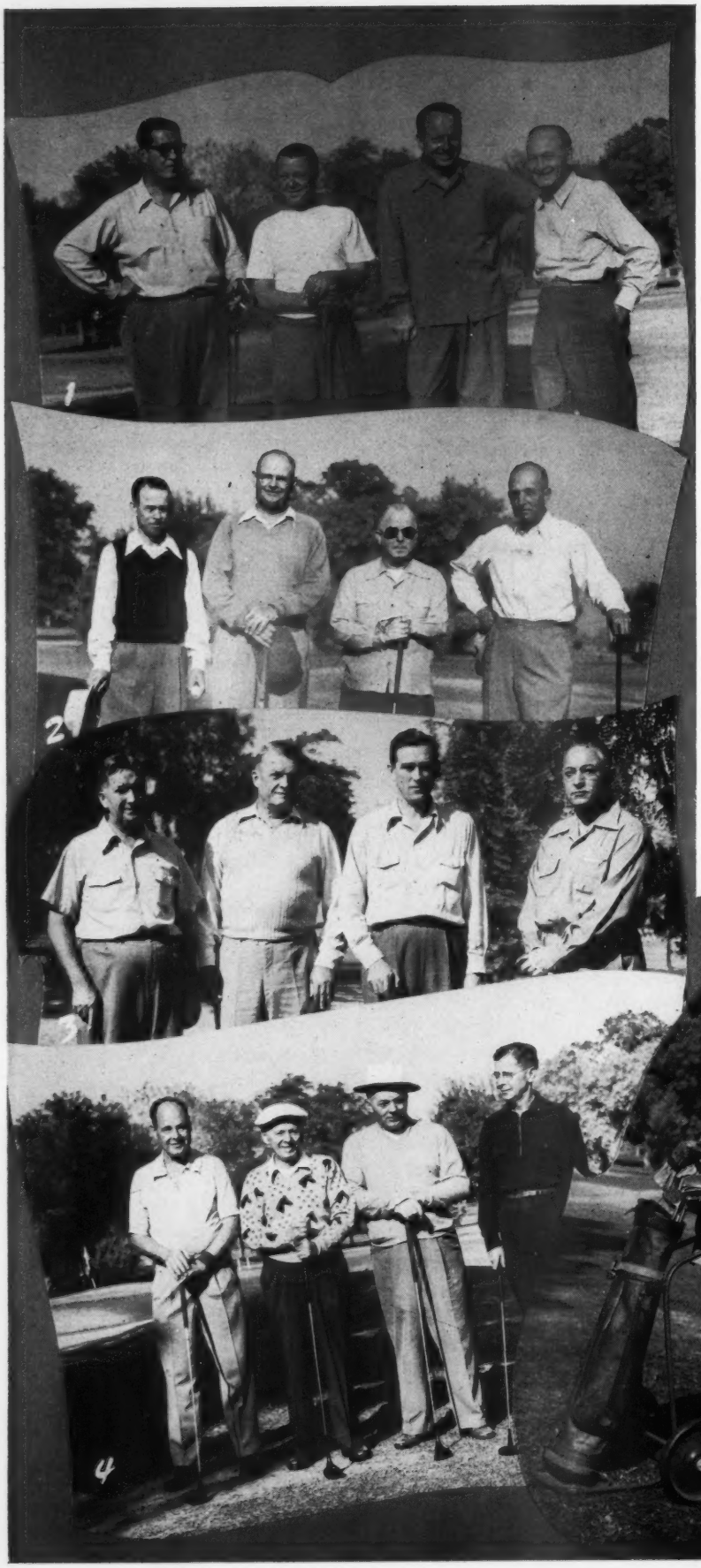
Thus, the Frontier polymerization unit is producing on an average of 150 to 200 barrels daily of 10# Reid vapor pressure polymer gasoline having an ASTM octane rating of 81-83 and a research octane rating of 95-97.

A new oil and gas well has been brought in near Jamestown, N. Y., the first new commercial producer in the area in 15 years.

Average daily production of crude oil per well in the United States was 10.7 bbl. at the end of 1945, as compared with 11.4 bbl. a year previous.

Proved oil reserves in the United States are estimated at 20 billion 826 million barrels — an all-time high.

The ratio of proved reserves of natural gas in this country to current consumption is better than 35 to 1.



Nineteeners

On October 19th and 20th, 194 the Ninteeners held their 13th Bi Annual Outing at Bakersfield. This was also their 157th consecutive monthly tournament. The outing was a huge success. Even three old members, who are now living in San Francisco, came down for the party. They were Claude Lane of the Standard Oil Company of California, Charley Schneider of the Tide Water Associated Oil Company and Dick Townley of the C. F. Braun & Company. Unfortunately seven members were unable to attend, as they were east on company business. They are: Bill Cline, Bill De Ridder, Paul Huggins, Earle Jorgensen, Jim MacDonald, John MacLeod and Jerry O'Leary.

The golf tournament was held at the Stockdale Country Club, just outside of Bakersfield and the gang quartered at the Bakersfield Inn. While on the subject of golf, Olin Magary of the Petroleum Equipment Company was the big winner. His net score for two days being 135. No one else was any where near him, second place being a 142 net. Two were tied for second place at the 142 net, Bill Farrar o

he Farrar Industrial Products Company and Lev Sacre of the Goodall Rubber Co. Charley Perkins of the Union Oil Company of California and Wally Rushing of the E. H.

(Continued on Page 32)

1. Left to right: Jay Perrin, Rollie Lohman, Al Jensen and Claude Lane.

2. Left to right: Johnny Johnson, Joe Aderhold, Percy Hayes, Roger Brown.

3. Left to right: Dick Whelan, Dale Russell, Frank Shlemmer, Alvin Zwerneman.

4. Left to right: Bill Farrar, Gilbert Nesheim, Wallace Rushing, John Templeton.

5. A broken leg kept C. H. Tuttle from competing in the tournament, but he kept close watch on the rest of the players and gave them all his encouragement.

6. Leonard Price, Olin Magary (Winner), Archie MacDonald, John Lucas.

7. Ward Blodget, A. S. (Doc) Hayes, President of the Nineteener's, Fred Currie, and Dick Townley.

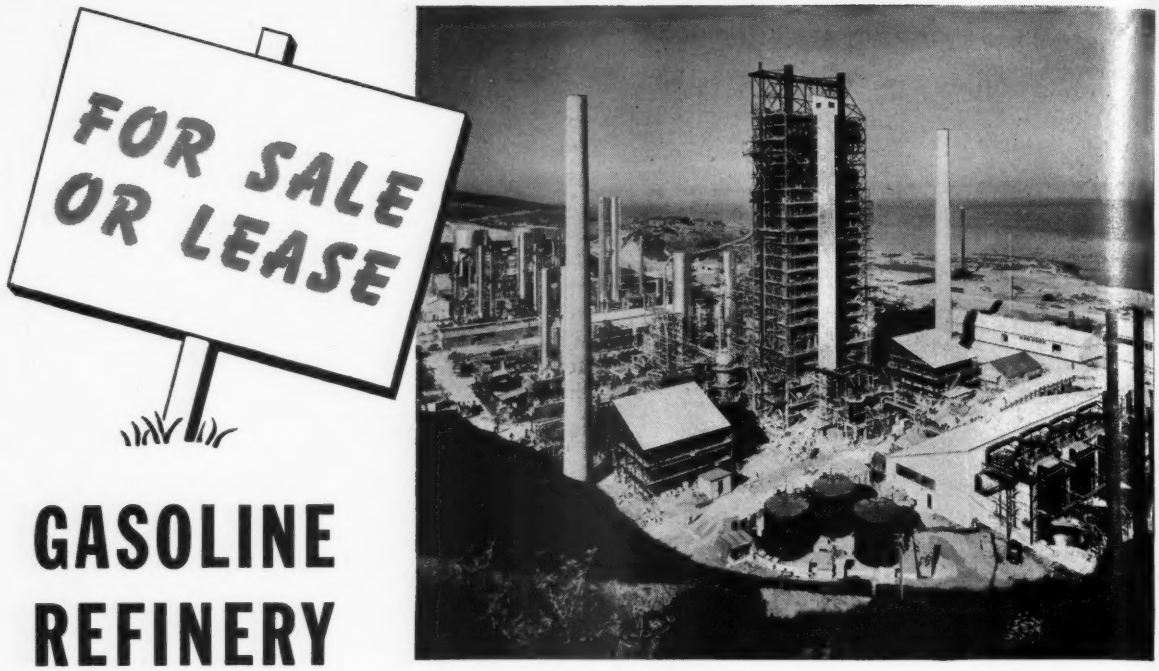
8. Sitting, from Left to Right: C. H. Tuttle, Roger Brown, Dick Whelan, Al Jensen, Johnny Johnson, Howard Chapman, Dick Townley, Ken Norris, Alvin Zwerneman, G. O. Suman, Charley Snyder, and Frank Shlemmer kneeling.

Second Row, Left to Right: Gilbert Nesheim, Rollie Lohman, Ward Blodget, Wallace Rushing, Claude Lane, Dale Russell, Holly Hayter, Bill Farrar, Lev Sacre.

Third Row, Left to Right: Jake Martin, Fred Currie, Monte Lindmore, John Templeton, Joe Aderhold, Jay Perrin.

9. Charlie Perkins, Harold Davis, Henry Paulsen and Tommy Bell.

10. From Left to Right: William Farrar, Olin Magary, the winner of the Tournament, and Lev Sacre.



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1. Thermofor Catalytic Cracking and Recovery Unit
   Capacity: 14,000 barrels of gas oil per day.
2. HF Alkylation Unit
   Capacity: 3,200 barrels of aviation alkylate per day.
3. U.O.P. Isomerization Unit
   Capacity: 1,400 barrels of isobutane per day.
4. (C4 C5) Distillation Unit
   Capacity: Consistent with operations of above units.

TANKAGE CAPACITY: Atmospheric—250,000 barrels
Pressure — 12,000 barrels

TRANSPORTATION: A belt line railroad spur on site connects with Southern Pacific and A. T. and S. F. lines at Richmond. Ship loading facilities about 2 and 4 miles distant. Secondary road from plant site connects with U.S. Highway No. 40. Airports located in San Francisco, 12 miles away, and in Oakland, 17 miles away.

UTILITIES: Sea water, used for cooling, supplied to plant by salt water pumping station with designed capacity of sewers emptying into San Francisco Bay. Oil contaminated water passed through separators. Other utilities furnished by local companies.

ACCESSORY FACILITIES: Consists of about 20 structures including an office building, laboratory, control houses, compressor buildings, storage warehouses, machine shop, steam generating plant, etc. with a combined floor area well in excess of 52,000 sq. ft. Buildings are functional in design and are constructed of a variety of materials following accepted engineering practices.

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Chemical Treatment for Cleaning Oil Wells

A new chemical developed to break down the hydrated properties of clay and known by the trade name of "Hi-Perm" has recently been introduced by Atlas Production Inc. of Los Angeles. The action of this chemical in the well is to penetrate the oil and break down any clay base material on or in the sand to its basic clay particles which are then easily removable by washing and bailing. The chemical also extends into the oil sand and, by cleaning it, increases its permeability. Effects similar to hydration caused by fluids other than water, such as foreign oil from oil-base muds, are also corrected by the chemical treatment.

The accompanying sketch is a diagram of a horizontal cross section of a typical oil well in sedimentary sand. It indicates a liner with undercut perforations. Since it is not the purpose of this discussion to consider the relative merits of various types of perforations and the various methods of cleaning them, the area from the outside of the liner to the center will be considered as bailable and, therefore, being capable of being totally cleaned by mechanical or hydraulic means.

At C is a sand bridge. This is the point of maximum velocity of the incoming oil and therefore the most critical point for packing and plugging with mud and silt. (Clay and other material used in drilling mud will be called "'mud", and clay originally present in the virgin sand will be called "silt".)

In area D, contains loose sand, mud and silt. Back of the face of the hole is sand and silt that has been penetrated by drilling fluid water or water from other sources such as might have been introduced to kill the well at some time. This is designated as area E. Back of this is area F, which has been untouched by any fluid since the sand was drilled into. It, of course, contains connate water which has had its effects on clay particles, etc.

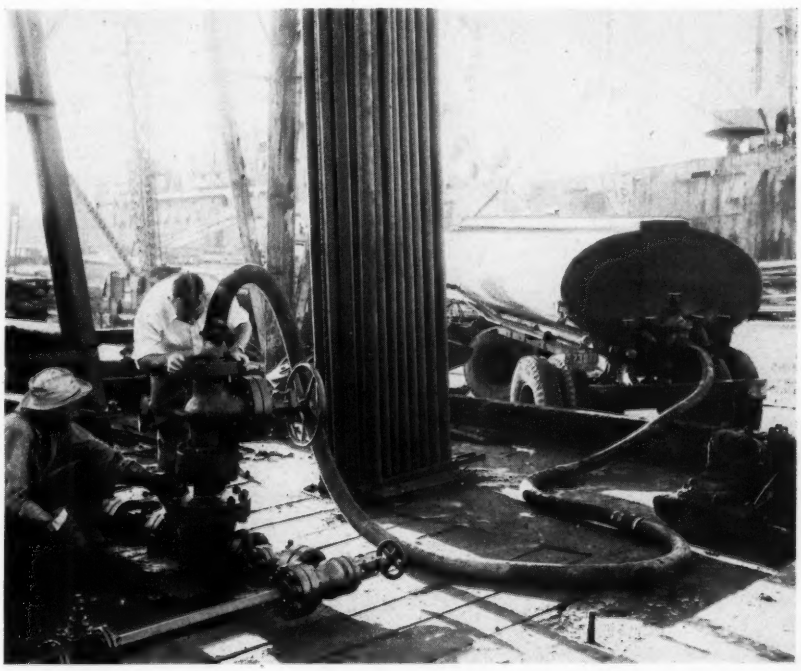
Mechanical and hydraulic means are available to clean out the perforations and to clean out partially the material in area D. Some of them may in some cases penetrate the wall of the hole, but when this occurs the portion that is penetrated becomes a part of area D.

Most cleaning jobs soon lose at least some of their initial benefit by reason of the fact that area D tends to resume its original condition as it was before cleaning. Then the sand becomes plugged again with mud and silt from areas D and E at the critical point of sand bridging at C.

The sand alone in area D is not to be blamed, since its permeability is much greater than that of the sand bridged perforations. The sand bridge, the point of highest velocity in the system outside of the bailable area, is assumed to be necessary to prevent entry of sand in large quantities with consequent mechanical difficulties.

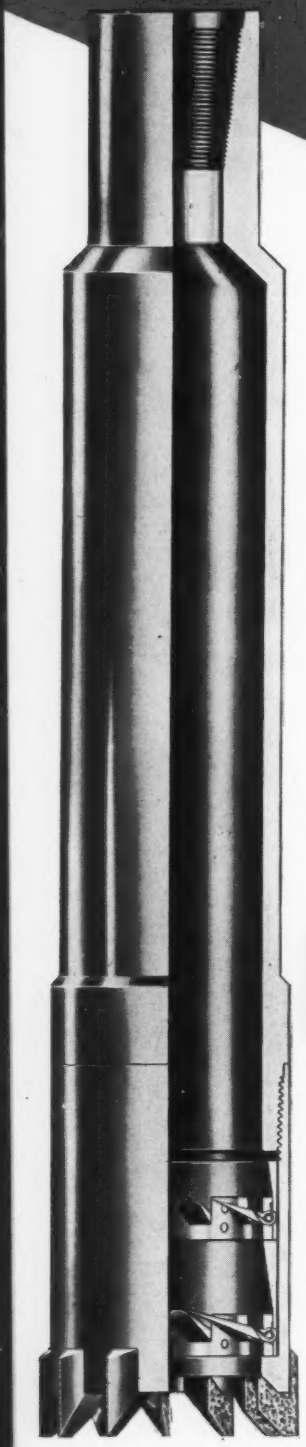
To obtain maximum results from cleaning, them, the permeabilities between area F, the virgin sand, and the sand bridge must be increasing with increase in velocity of fluid being produced. (The relationship is of course not a direct proportion.) From this it can be assumed that the relationship of permeabilities must be greatest in order as follows: C-D-E-F, as nearly as possible. If the sand bridge is clean of mud and silt, conditions at C and F obtain. Of course, the condition at C can be improved by gravel packing. In fact the conclusions of this discussion point very favorably to gravel packing where the cost is justified.

To condition areas D and E so that they will meet the requirements, it will be necessary to remove mud and silt from the sand. (Note that it will not be necessary to remove sand from D.) To do this, the mud and silt must be reduced to fine particles so that it will percolate through. This mud and silt has been hydrated so that it is difficult to break it down into fine particles. It is the purpose of the chemical to do this and permit the clay particles to be removed by washing action and with the production.



One method of introducing the chemical into the well is shown here. In this well the fluid level is low and no water is present so the chemical is run into the top of the casing after bailing, the fluid running to bottom and spotting itself. Powdered chemical was mixed in the tank by circulating with a pump in the truck, the mixing being done at the well.

THE *Globe*



GLOBE JUNK CATCHER (Patented) Junk Extractor and Hole Conditioner. Strong, Double Catchers Hold Junk Securely While Coming Out of The Hole.

GETS EVERYTHING!

. . . FROM SNARLED WIRE LINE TO BROKEN DRILL SLIPS

The Globe Junk Catcher will recover junk and fish of every kin from any well. It is simple, economical, safe and sure. The Glob Junk Catcher is the best answer to all recovery problems.

Globe **OIL TOOLS COMPANY**

Ventura, California — LOS NIETOS, CALIFORNIA — Bakersfield, California

If the cleaning has extended sufficiently far to extend the area E but so that the velocity of the flow of production through F is so low that it will not transport silt, the cleaning job will be permanent. Any approach to this will of course be an improvement over just partially cleaning area D.

In these considerations, the importance of using mechanical and hydraulic means of aiding in securing distribution of the chemical and in helping to move spent chemical is not to be underestimated. The economics of each and of both together must be duly considered.

As to the type of chemical to be used, it must be one that will reduce instead of increase the hydrated properties of the mud and silt. Abnormally high ph (caustic) and sometimes a very low ph (acid) will not be satisfactory according to accepted theories. Having met the requirements for the main job, the secondary considerations of convenience are not to be ignored. Some of these considerations are:—ease of handling; effect on personnel; simplicity of application; simplicity of timing the application and removal; effect on metals, including steel and aluminum; effect on rubber, cement, etc.; effect of well temperature; and effect on oil produced just after treatment.

Methods of Application

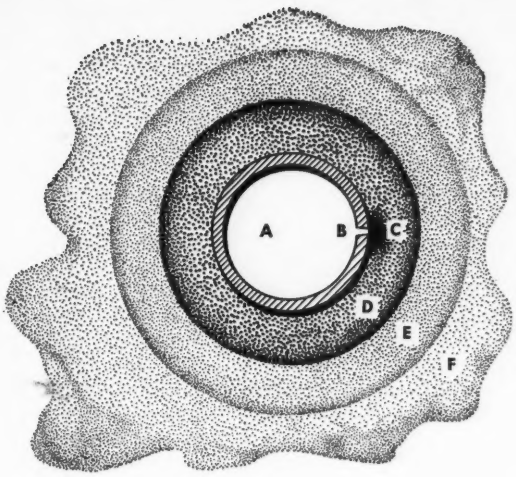
Various methods of application are recommended depending upon the mechanical condition of the well and the fluid in the well. The chemical may be spotted in the well by any means that best suits the other operations. In a low fluid level well with no water present, or only such water as may be readily bailed out, the chemical may be run in at the top of the casing after bailing. It will run to bottom and spot itself. Some mechanical aid should then be provided. Either down or up swabbing may be used to advantage. Where this cannot be done because of bad pipe, running a bailer through the chemical will be of some help and additional time should be allowed for the chemical to work.

In gravel packs, either conventional or pre-packs, when the liner has vertical slots, the knife perforation cleaner is an excellent tool to use, followed by a swab washer. In fact this is a good procedure in any case where it can be done. It gives positive assurance that the perforations are all opened up.

In gun perforations, a tool that will squeeze the chemical into the sand is best to use. And, where fluid levels are sufficiently high, this squeezing can be done with surface pressure, although it is best to squeeze in small intervals with a tool in the holes.

For wells that come in "with a bang" it must be remembered that these wells, strong as they are, only produce through the most permeable sand streaks. The less permeable sands remain clogged for the life of the well. The whole sand interval should be cleaned up at the very start to insure minimum damage from high velocity.

The chemical may be removed when convenient, such as by flowing the well or running the production pump and pumping it out. The chemical is slightly heavier than water, depending on the water used for mixing. It is slightly alkaline, having a pH of from 8.0 to 9.0.



A—*Bailable Area*
B—*Self-Cleaning Slot*
C—*Sand Bridge*
D—*Sand, Mud and Silt*
E—*Penetrable Area. Sand and Silt and Foreign Fluid*
F—*Virgin Sand and Silt and Formation Fluid*

Areas D and E Include Mud Cake

One of the petroleum industry's most enthusiastic sportsmen is Art Stewart of Union Oil Co. Adept with both gun and rod, Art has been bagging both Bull Sprig and Spooner Bill at the Bolsa Chica Gun Club, since the duck season opened.

Two Los Angeles industrialists of note spoke at the regular November dinner meeting of the California Natural Gasoline Association at the Rio Hondo Golf Club, Downey.

R. M. Bauer, Southern California Gas Co. and Southern Counties Gas Co., discussed "Texas Natural Gas for California," and A. R. Weigel, Consolidated Steel Corp., "Recent Developments in the Fabrication of Line Pipe."

Appointment of F. F. (Al) Sims as chief scout for Richfield Oil Corp. has been announced. He replaces Kenny Cook, who has been elevated to the post of land man. Sims formerly was a staff scout and earlier an engineer for the company in the Long Beach area. Before coming to California some years ago, he was with Gulf Oil Co. and British-American Oil Producing Co. in Texas and Oklahoma.

Joe Severns, production foreman for the Severns Drilling Co., who has been hospitalized since receiving serious burns in the field more than three months ago, is reported well on his way to complete recovery.

A.I.M.E.

At the conclusion of a two day technical session held at the Ambassador Hotel, in Los Angeles, the results of the election for the next years officers for the Pacific Petroleum Chapter of the Petroleum Division of the American Institute of Mining and Metallurgical Engineers was announced. Mr. John R. McMillan, Manager of Field Operations for Fullerton Oil Company was elected chairman. In addition three new councilors for 1947 were elected. Mr. A. W. Gentry, Superintendent of Operations for Long Beach Oil Dev. Company; Mr. R. L. Parsons, Petroleum Engineer with the Standard Oil Company of California; and Mr. Frank S. Parker, Geologist with the Signal Oil and Gas Company, will be the new members on the council of the Petroleum chapter.

Other officers, carrying over from last year, are Mr. N. Van Wingan, Senior Production Engineer with Richfield Oil Corporation as Secretary-Treasurer; Mr. T. H. Acres, As-

sistant Chief Petroleum Engineer, Richfield Oil Corporation and Mr. Carlton Beal, Petroleum Consultant, are councilers. Mr. W. W. Porter, II, Consulting Geologist is retiring chairman and automatically becomes a member of the Petroleum Chapter Council. Mr. John De Hetre, Chairman of the Junior Division is also a member of the Council.

---

1. Ward Evans, H. C. Pyle, D. L. Caldwell, H. F. Beardmore, F. L. Cuthbert, W. H. Geis, E. G. Trostel, W. H. Strang, J. H. Murrell, W. W. Porter, II, E. O. Slater.

2. J. P. Byrne, J. C. Sherer, T. A. Atkinson, R. H. Price.

3. L. W. Chasteen, W. W. Porter, II, W. H. Strang, E. O. Slater.

4. E. K. Parks, J. R. Pemberton, W. S. Eggleston.

5. H. R. Van Wagenen, Vice Chairman for Mining; H. J. Clark, Secretary-Treasurer; E. O. Slater, Chairman; T. A. Atkinson, Vice Chairman for Petroleum.

6. E. O. Slater, H. S. Mudd, L. S. Cates, A. B. Parsons, G. W. Nilsson, H. F. Beardmore, W. H. Strang.

7. N. Van Wingan, W. R. Wardner, Jr., W. H. Geis, D. K. Weaver.

8. I. S. Parker, W. H. Geis, Jan Law, G. B. Thomas, C. C. Olson.

WOW! WHAT A ROD STRIPPER!

DUO-WIPE STYLE
Code: SUBZONE

"Strips rods like a charm"
"The answer to rod stripping"
"Works very well"
"Very satisfactory"
"We keep clean now"
"Is working fine"
"Rush us several more"
"The only real Rod Stripper made"
"Very pleased with new Rod Stripper"
"Send us two more"

Thousands of Well Pullers and Production Men can't be wrong. Reception of the new Patterson-Ballagh Sucker Rod Stripper, since its introduction a few weeks ago, has been phenomenal. Results have far exceeded expectations. A few unsolicited comments from men who are using the Stripper are noted above.

Let your next Stripper be a PATTERSON-BALLAGH DUO-WIPE STYLE SUCKER ROD STRIPPER—Nothing to break or give trouble—Nothing to wear out, except easily replaceable stripping elements, and these are changed in a jiffy. This Stripper means clean rods—clean rigs—clean handling. And, best of all, the approximate net cost is only $30.00 complete, anywhere in the U.S.A. (Factory mounted on pony rod at slight extra charge, if desired).

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SAN FRANCISCO 4

Personalities IN THE NEWS

Watts Appointed General Chairman Spring Meeting A.P.I.

E. V. Watts, General Petroleum Corporation, has been appointed General Chairman for the 1947 Spring Meeting of the Pacific Coast District Division of Production, American Petroleum Institute. The appointment was announced by M. V. Morris, Standard of California, Chairman of the Pacific Coast District.

E. V. Watts

The meeting will take place May 15th and 16th at the Biltmore Hotel, Los Angeles.

Watts is organizing committees to take care of the various activities of the meeting, which has grown to outstanding proportions in recent years, and will announce the personnel later.

Eddie Harrison, rightfielder with the Torrance Signal Oil & Gas baseball team, has been winning victories with his rousing banging of the horsehide against all opposition. He formerly was with the Hollywood Stars.

Cunningham and Haynes Head New Standard Department

Formation of a new exploration department, with George M. Cunningham as general manager, was announced on November 5th by Standard of California. O. J. Haynes will be assistant general manager.

The department is to handle Standard's land and lease, geological and exploration activities, with the exception of exploratory drilling.

Appointments to new positions in the department include W. P. Winham, superintendent of exploration, southern district; G. L. Knox, superintendent of exploration, northern district; A. J. Solari, superintendent of exploration, Bay district, and W. F. Barbat, assistant chief geologist.

Exploration department staff members who will continue with their former titles are W. S. W. Kew, chief geologist; S. H. Gester, assistant chief geologist; G. C. Gester, consulting geologist; Phil Gaby, consulting geophysicist, G. F. Schroeder, manager, land and lease division, and L. H. Hines, assistant manager, land and lease division.

George M. Cunningham

O. J. Haynes

A recent Los Angeles visitor was Augustus Bowen, Standard Oil Co. executive in San Francisco. While in the Southland he attended the gridiron game between University of California and USC Trojans at the Coliseum. Gus, as he is popularly known, was a student at UC during the Andy Smith wonder-team years.

H. E. Radford, mechanical engineer for Shell Oil Co. at Ventura, spoke on "Effect of Drilling Mud on Cementing and Completion Practices," and K. A. Wright, B. & W., Inc., discussed "Investigation Into the Placement of Cement Slurries in Oil Well Cementing" at the meeting of the Los Angeles Basin chapter of the American Petroleum Institute at the Shell Recreation Hall, Signal Hill.

Production Pioneers Complete Plans for "Year-End" Party

According to an announcement by Lou Bronzan, Chairman of arrangements, the Petroleum Production Pioneers will hold their Year-End Party, on Friday, December 13, at the Roger Young Auditorium, 1936 West Washington Blvd., Los Angeles. The petrolic oldtimers and their guests will convene at 5 P.M., and will entertain themselves and be entertained, until the dinner hour of eight, when—with the lid off meat—they will be given an opportunity to make up for any scarcity of red corpuscles occasioned by the late lamented meat famine.

B. Bronzan
(Chairman of Arrangements)

This promises to be one of the greatest assemblies of oil pioneers in the history of the California petroleum industry, and it is purposely being held in advance of the Wildcat and other Christmas parties, so that there will be nothing to interfere with a full attendance. Members are urged to seek out all persons eligible for pioneer rating, and bring them out as guests. The executive board, led by J. E. Gosline, Standard of California, has established as a major project for the coming year, a roundup of all production pioneers in the State. The opening gun in this campaign will be fired at the Year-End Party, where a consultant will be available, with application blanks, to aid and advise those who wish to be identified with the organization and its purposes.

J. E. Gosline
(Chairman Executive Board)

The Year-End Party will, as usual, offer the members and their guests ample time to mix around and indulge in the reminiscence exchanges that are a most popular feature of these affairs. Incidentally, there is free parking for approximately 100 automobiles just off Washington Blvd. at Toberman, near the Roger Young Auditorium, and lots more parking space in convenient surrounding areas. Those who are without transportation will be called for, if they will simply leave their names and addresses with Miss Rosborough at Jefferson 2171.

Thomas W. Simmons, president of Bolsa Chica Oil Corp. and prominent sportsman, was elected president of the Hollywood Turf Club, succeeding Willard W. Keith. C. M. Rood, Huntington Beach oil producer was re-elected secretary. Earl B. Gilmore and A. T. Jergins, veteran members of the oil fraternity, were re-elected directors.

Lutar Hoobyar, guest speaker at the Optimist Club in Long Beach, said the struggle among the world powers for the control of Iran's wealthy oil resources illustrates the age-old conflict between strong powers which inevitably leads to war. Hoobyar is a native of Iran.

C. V. Lane Advanced By Standard

C. V. Lane has been appointed manager of Standard of California's purchase and stores department. He succeeds L. B. Waters who was granted an indefinite leave of absence because of poor health.

At the same time A. R. Eimer became an assistant manager succeeding Lane.

Lane, a native Californian, joined Standard in 1908 as an office boy in the purchasing department. He since has worked exclusively in that department in San Francisco and Los Angeles, with the exception of a period spent in Dallas with The

C. V. Lane

California Company, Standard subsidiary. He was assistant manager for Standard's purchase and stores department at the time of his present appointment.

Waters has been with Standard since 1922 and served as manager of the purchase and stores department for the past six years.

Eimer, a graduate of University of California, has been a Standard Oiler since 1922. He has spent the last 15 years in the Department of Organization where he participated in organization studies of the company's various departments and of its subsidiary and affiliated firms.

Fight Infantile Paralysis
March of Dimes
January 15 - 30

Greene Named Manager of Lands and Leases by Union

The appointment of R. G. Greene as Manager of Lands and Leases has been announced by Union Oil Company. He replaces John L. Murch, who has been appointed assistant to Vice-President A. C. Rubel, on special assignment.

R. G. Greene

A graduate of Stanford University, class of 1923, Mr. Greene began his association with the Company in 1925 as a geologist. His first assignment was in Venezuela where he remained until returning to California in 1929. Seven years later, he severed his connection with the Company to head up the Union Pacific Railroad's geological department.

Since his return to Union Oil in November of last year, he has organized and established the Company's Northwest Land Division in Seattle.

Gardner-Denver Appoints G. V. Leece General Sales Manager

G. V. Leece, Vice-President of Gardner-Denver Company, has been appointed General Sales Manager for the company, effective immediately. Mr. Leece joined the Gardner-Denver Company in 1922 and is now rounding out approximately twenty-four years of service. For the past two years his position has been that of Vice-President in charge of the Export Division with offices in New York City. For five years previous to this appointment, he was District Manager of the New York branch office and for seven years prior to this period he had been Pacific Coast Manager.

Mr. Leece, who is also a Director of Gardner-Denver Company, will now be located in the company's plant at Quincy, Illinois. He brings to his new duties a thorough understanding of the company's widespread markets.

Youngstown Announces Personnel Changes

The Youngstown Steel Products Company of California has announced several organization changes effective as of November 1, 1946.

R. I. Whelan, Manager of Sales, Oil Country Division.

H. N. Perram, Treasurer and Assistant Secretary succeeding L. B. Wiggins resigned.

Richard Graham, Order Clerk, Sales Department.

Whelan brings to his new position a background of more than twenty years of selling experience in the California oilfields both with The Republic Supply Company and with Youngstown.

Perram joined the Youngstown organization in March 1941 as an accountant, coming to them from Price, Waterhouse & Co., internationally known public accountants. He succeeds L. B. Wiggins who has resigned to assume the active management of A & W Truck Rental Company who are engaged in leasing all types of commercial trucks.

Graham was formerly with Baker Oil Tools, Inc., and has just joined the Youngstown organization.

John Aston Passes Away

The industry was shocked to learn of the death of John S. Aston, Engineer for The Texas Company, in an oil field accident on November 1, 1946.

Born in Chicago, Illinois, thirty-two years ago, Mr. Aston attended secondary schools in Long Beach, California, and graduated from Stanford University in 1938. He began working for The Texas Company as Roustabout during Summer vacations and continued with them, after graduation, as Trainee in the Engineering Division, being located at Fellows and in the Los Angeles Basin. After a tour of duty as Engineer for the company in Argentina and Venezuela, he returned to California in March, 1945, in the capacity of Development Engineer, with headquarters in Los Angeles.

Mr. Aston had a wide range of experience and enjoyed a host of friends in the oil industry. He was respected as a capable man and a competent Engineer by those who knew his work.

Chalfant Elected Director National Supply Company

Henry Chalfant, descendant of one of the founders of Spang-Chalfant and Company, now a division of The National Supply Company, was elected a director of the Company at a meeting of the Board on October 29th.

Henry Chalfant

He will fill the vacancy recently created by the retirement of Mr. P. J. Shouvlin. Mr. Chalfant is assistant secretary of The National Supply Company.

During the war he was in the African and European campaigns as a Lieutenant Colonel in the Army Air Forces.

Gordon Buckhout, widely known in oil and investment banker circles, has joined the executive staff of Livingstone & Co., Los Angeles, as vice president.

HERE'S THE SPEAR OPERATORS PREFER for inside-the-pipe jobs!

FISHING OPERATIONS

can be mighty risky business unless the tools you use are dependable, safe tools—designed and proven for the job through years of successful use.

That's why so *many* operators prefer the Bowen Releasing Spear for all inside-the-pipe operations such as pulling, backing off or holding casing, drill pipe or tubing. It has just six simple parts, including the 3 slips, and is ready to run in and take a full length, slip-proof grip in the pipe that will stand all the hard jarring you put on it. It sets *easily*, releases *positively—and has never been known to fail even under the most difficult fishing conditions.*

The Bowen Spear is the ideal tool for use with the Bowen Inside Cutter for cut and pull operations, and in combination with the Cutter and Bowen Jar for cut, pull and jar operations. It is made in all sizes, both right and left hand, with and without pack-off attachments, to meet every fishing requirement.

An Operating Manual which illustrates and describes the Bowen Spear in detail and covers its operations and maintenance on the rig is available on request. Write for your copy of this helpful booklet today!

CALIFORNIA DISTRIBUTOR FOR KINSBACH

BOWEN FISHING TOOL COMPANY

SANTA FE SPRINGS, CALIFORNIA

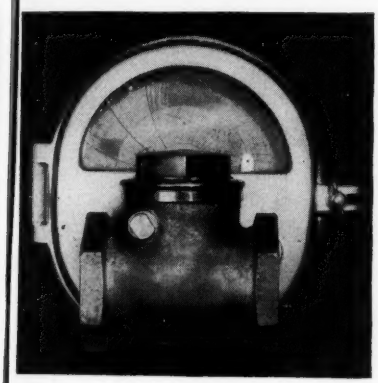
VENTURA • BAKERSFIELD • AVENAL • SANTA MARIA

CASPER, WYOMING

Export: S. R. BOWEN CO., 30 ROCKEFELLER PLAZA, NEW YORK, N. Y.

PSJ Well Status Recorder

The PSJ Recorder is an automatic recorder of oilwell performance that provides a permanent minute-by-minute record of oil well action. It is simple to install in any part of the line between stuffing box and tank or sump and will furnish permanent records by the day or week on charts brought directly to your office.



The PSJ Recorder instantly detects and permanently records change of stroke, plunger, tubing, need for bailing . . . experimental work fluctuations, exact time and length of such fluctuations . . . approximate total volume and exact comparative volume of material produced . . . length of time spent in servicing well; it will indicate fluid changes, thereby eliminating depthograph service. The PSJ Recorder uses no ink and is adapted for either 1" or 2" indications. Ruggedly constructed of cast aluminum case attached to a standard swing gate, 125-lb. 2" check valve. It contains mechanical linkage from the stylus which measures and records the gate position on a 24-hour or 7-day wax surfaced chart which is turned by a hermetically sealed Macknic Chart Clock. It supplies accurate, permanent history of wells actively on 24-hour or 7-day on a 6" chart.

For complete information on this device write to: Elmer Jones, 201 East Moreta St., Bakerfield, Calif.

Meyercord Expands West Coast Operations

To meet the demands of expanding Pacific Coast industry, Leonard H. Knopf, president of The Meyercord Co., world's largest manufacturer of decalcomania transfers, has announced his firm's establishment of new modern air-conditioned manufacturing facilities at 4500 District Boulevard, Los Angeles, to provide the West Coast its first, complete, full-scale decal plant.

With the establishment of the Los Angeles factory, many special processes developed during the war will be made available on the West Coast to identify, decorate and advertise western products, according to Mr. Knopf.

"The decal industry made tremendous strides during the war when it filled an urgent need for high speed methods of identifying and decorating products at lower material and time cost. The war really proved the extreme flexibility of decalcomania," he said.

Each type of decal and its application presents a different problem, Mr. Knopf claims. "Fifty years of experience in producing decals to meet thousands of different specifications, in different sizes, for millions of uses, proves that no single type is adequate for all conditions and surfaces."

Mr. Knopf reports that the new plant would make exclusive Meyercord equipment and techniques available on the Pacific Coast. The company makes a complete repertoire of decals in any size, color or design that are resistant to extremes of weather, heat and cold, humidity, dryness, acid, alkali, gasoline, oil, chemical fumes, salt air, dampness, mildew, abrasion and constant use and wear. The firm's commercial

The Pacific Coast's first complete manufacturing plant for the full-scale production of all types of decalcomania transfers has been established in this modern, air-conditioned factory.

products **can** be applied on high-speed production lines by untrained labor to practically any type of surface, including rubber or crinkle finishes. Special Meyercord developments include Elasticals that stretch with the rubber upon which they are applied, and "edible" decals, made of harmless color for trademarking food products and fruit.

Company sales offices in Los Angeles, San Francisco and Portland will offer the Meyercord Decal line in 11 Western States for application on Pacific Coast products as name plates, instructions, patent data and numerals, products decorations, cabinet finishes, for window signs and valances, truck lettering and pictorials, as well as special decals for any known commercial surface.

Meyercord's Los Angeles plant is the fourth in a chain of company-owned or associated plants in Chicago, Toronto and Mexico City.

Chiksan Introduces New Swivel Joint

The new Chiksan XH (extra high pressure) Swivel Joint is built for working pressures of 12,000 psi. and provides the same low torque and positive packing seal-off associated with all Chiksan Swivel Joints since their inception. Rotating members are steel forgings, machined to close tolerances and with flame-hardened ball races. Full 360° rotation with low torque takes place on two rows of hardened steel balls which also serve to hold the rotating members together under pre-regulated pressure.

The packing element is specially designed for high pressure service and is self-adjusting. As in all Chiksan Ball-Bearing Swivel Joints, the new Type XH employs no bolted flanges, locking rings or stuffing boxes. There is nothing to tighten or adjust. High pressure lubricating fittings provide for positive lubrication of the bearings. Inside diameter is unobstructed, permitting full flow of liquids, gases and vapors with maximum friction loss and turbulence. End connections are of the high pressure, tapered thread type. The new Type XH Chiksan Swivel Joint is recommended for all high pressure services to 12,000 psi. where maximum flexibility, easy turning, minimum maintenance, long life and maximum safety are essential.

The complete Chiksan line of Ball-Bearing Swivel Joints also includes more than 500 different Types, Styles and sizes for pressures to 300 psi., 1,000 psi., and 3,000 psi., and temperatures to 500°F. The new Type XH has been developed to meet the demand for a Swivel Joint with Chiksan's exclusive features for extra high pressure service. Manufactured by Chiksan Company, Brea, California.

Western Oil Tool Makes Tie-in With Waldrip Company

A new California corporation enters the portable oil well servicing and drilling equipment field, with the recent announcement by Western Oil Tool & Engineering Company, Inc., formerly of Glendale, and now with offices at the Waldrip plant at Hollydale, California. Specializing in the development of oil field equipment, Western Oil Tool & Engineering Company has for the past year been perfecting the design of a line of portable drilling and well servicing units.

The original concept and designs for the new equipment were made by James Moon and E. M. Wagner, and are based on many years of experience as engineers and consultants in the aviation and petroleum industries, as well as the engineering profession generally. The Company was incorporated in October 1945. Its present officers are James Moon, president; E. M. Wagner secretary; B. P. Bayless, vice-president; J. F. Shaw, chief engineer and C. A. Earle, field engineer.

The Waldrip Engineering Company, with plants in California and South America, will manufacture and handle sales of the new line which, under the name "Waldrip-Western" includes a series of six sizes and capacities Each size will offer a choice of skid, truck, tractor, or trailer mounted units, or completely self-propelled rigs, with new styling and design features.

It is stated that the drilling units will incorporate an increased capacity over weight ratio; simplicity of control and operation; double clutch drums with direct air clutches throughout; maximum visibility and grouping of controls for the convenience of the operator; streamlined design, and easily accessible components to minimize maintenance time. Capacities will range from Model 200 units, rated at 2500 feet of 2½-inch (wet) tubing, to the Model 700, rated at 16,000 feet of 3½-inch drill pipe.

In creating this new line of servicing and drilling units, Waldrip-Western has had the petroleum industry point of view in mind from the beginning. Such items as weight reduction without sacrifice of capacity; optimum positioning of controls; built-in safety; ease of cleaning; rigging-up and moving speed, and maximum reduction of avoidable shut-down time, have been prime considerations in design and structure.

For the first time in the oil drilling industry it is stated, aircraft design methods are being applied to eliminate unnecessary weight. High property alloy steels and aluminum are being used to develop a powerful, compactly built, lightweight machine, capable of performing satisfactorily all jobs within its design range.

Fight Infantile Paralysis
March of Dimes
January 15 - 30

THIS LAUGH OFF!!

Then there's the fellow who went into marriage with his eys shut. Her father packed an awful wallop!

"Do you love your enemies?"

"Yes, all three of them; Tobacco, Women and Liquor."

First Little Boy: "I don't like the new little girl on our block. Her neck's dirty."

Second Boy: "Her does?"

And did you hear about the dizzy blonde who was about to undergo an operation? "How long, doctor," she was asking, "after the operation will I know something."

"Oh," replied the doctor, "you mustn't expect too much from an operation."

Teacher (warning her pupils against catching cold): "I had a little brother, 7 years old, and one day he took his new sled out in the snow. He caught pneumonia and three days later he died."

Silence for 10 seconds. Then a voice from the rear:

"Where's his sled?"

"You mean to tell me that he just sat there all night with his arms folded?"

"Yes . . . but it wasn't so bad. I was in them."

A hard-driving taxi man ignored red signal, threatened a traffic policeman's knee, missed a street island by an inch and grazed a bus, all in one dash.

The policeman hailed him, then strolled over to the taxi, pulling a big handkerchief from his pocket en route.

"Listen, cowboy" he growled. "On your way back, I'll drop this. See if you can pick it up with your teeth!"

Charles Coburn, the actor, tells this story:

As a boy, I fell in love with the theater and started seeing plays whenever possible. "One thing, son, you must never do," my father warned me. "Don't go to burlesque houses."

I, of course, asked why.

"Because you would see things you shouldn't," Father replied.

That settled it. The next time I managed to get the price of admission, I went straight to a burlesque house.

Father was right. I saw something I shouldn't have seen—my father.

—Louis Azrael in Baltimore News-Post

King George V was noted for his frugality and thrift, qualities he tried to instill in his offspring. The then Prince of Wales, on the other hand, was pretty much of a spendthrift. While at school, he wrote his father pleading for some additional money. In return he received a stiff note of reproval urging him to change his ways and learn to be a businessman. In the next mail the king found a note from his son which said:

"I have taken your advice. Have just sold your letter to a collector for 25 pounds."

—Louis Sobol, King Features

Mr. Bowen: "Tell me the worst now, doctor."

Dr. Turner: "No, I'll send the bill later."

If the folks who design bathing suits aren't careful, they'll be working themselves out of a job.

Telegraph Messenger: "What was the most wonderful experience you have ever had?"

Another T. M.: "The night I took a telegram to a beautiful blonde saying her husband wouldn't be home until the next day."

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Los Angeles Basin

Castaic Area Wildcat Scene

The Castaic area has come into prominence with the initiation of new wildcat play under the banner of of Republic Operators, Inc., a wholly owned subsidiary of Republic Petroleum Co. Location for Republic Fee No. 1 has been staked 580 ft. north and 870 ft. west of the southeast corner of Sec. 13-5n-17w. This is ap-approximately two miles north of Castaic and five miles east of Oak Canyon production.

Interest in the play is shared with John Schumacher and W. W. Stabler & Associates, which involves 3000 acres in Secs. 12, 13, 24 and 25-5n-17w and 18, 19 and 30-5n-16w. Republic Petroleum Co. has long been a fee holder of 820 acres in the area.

One-half mile south and west of the south end of the property Barnsdall Oil Co. is grading for its Dodge No. 1 in Sec. 32-5n-16w. This is north of the Los Angeles County Honor Farm, where years ago Barnsdall sponsored some test drilling.

Antelope Try Drilling On

In the Antelope Valley area, Amapola Oil Corp. is drilling at 1800 ft. with its Amapola No. 1 wildcat in Sec. 6-6n-12w, without official information of what may have been uncovered to date.

La Mirada Test Drills Siltstone

General Petroleum Corp. is drilling siltstone and sand at 11,440 ft. with La Mirada Comm. No. 46-1 in Sec. 16-3s-11w in the La Mirada area.

Beach Still Lively Center

The Huntington Beach-Newport Beach area continues to set a fast pace in new drilling operations.

In the Atha sector, Hiawatha Exploration Co. has location staked for Atha No. 4 in Sec. 13-6s-11w. Morton & Sons is drilling Holtz No. 7-1 in Sec. 7-6s-10w at 5340 ft. Irvine No. 7-1 in the section is standing with casing cemented at 5410 ft. Crew Comm. No. 1 has been abandoned at 9752 ft., after testing wet at all intervals.

Amerada Petroleum Corp. is drilling Anaheim Sugar No. 64-7 Sec. 7-6s-10w at 5470 ft. The company's Irvine No. 15-7 in the section is a foundation. D. D. Dunlap is preparing to start the drill in Aldrich No. 4 in Sec. 18. In Sec. 13, L. & W. Oil Co., Ltd., has completed Surf No. 1 at 5460 ft., flowing an estimated 200 barrels of oil per day, cutting 55 per cent through 20/64-inch bean.

Standard Oil Co.'s Deeble-Smith No. 1 in Sec. 13-6s-11w has set conductor pipe. McLeod No. 1 in Sec. 18-6s-10w is bailing sand at 2215 ft. with plug at 2364 ft. Tide Water Associated Oil Co.'s Aldrich Fee No. 1 in Sec. 13 went to a total depth of 5044 ft., tested a number of inter-

On the floor of Thomas P. Pike Drilling Co.'s derrick at Standard Oil's San Gabriel No. 4 are left to right: M. L. Stephens, back-up; W. S. Holden, lead tong; F. DeJarnett, derrickman; George Lighthall, cathead and J. B. Fowler, driller.

Photo by Stiefler.

als on the way out and quit.

Barnhart-Morrow Cons., Alford No. 1 in Sec. 18 was redrilled to 526 ft. and finished for 28 barrels day, cutting 30 per cent. Total epth is 3887 ft. No. 2 is drilling 3545 ft. Signal Pet. Co. of Calif., td. Deeble No. 1 in Sec. 13 is fish-ng, after perforating several inter-als. Total depth is 4845 ft., with asing set at 3454 ft.

Yorba Linda Test Gives Up

In the Yorba Linda area of Or-nge County, General Exploration o. looked at everything to 5466 ft. ith its Marshburn No. 1 in Sec. 3-3s-9w and found little of oil in-erest and relegated the try to his-ory.

Gardena Lists Another Test

Another operator has decided to y for production in the Gardena rea. H. C. Christie has location aked for Johnson No. 1, 1700 ft. ortheast of the discovery well in ec. 22-2s-14w. Texas Co., Operator, Gardena Comm. No. 9-1 in Sec. 26 s drilling at 3537 ft. British-Amer-can Oil Prod. Co., Alondro Park No. 1 in Sec. 22 is drilling in shale t 6518 ft.

Olinda Try Tests Damp

Wood-Callahan Oil Co.'s Coyote No. 1 in the Olinda area, Orange County, tested wet between 585 and 250 ft. Total depth is 1975 ft.

Garden Grove Test Grading

Near Garden Grove, Orange County, Standard Oil Co. is grading ground for Stanley Comm. No. 1 in Sec. 33-4s-10w. In the Santa Fe Springs area the company Newsom Comm. No. 1 in Sec. 36-2s-12w is drilling slightly below 3700 ft.

Newhall Well Swabbing Oil

Seaboard Oil Co. is swabbing oil nd mud and no free water with Mission Land No. 8-1 in Sec. 25-3n-6w in the Newhall area. Total depth is 7587 ft. W. W. Bush Oil Co.'s Weber No. 1 in Sec. 11 is a location.

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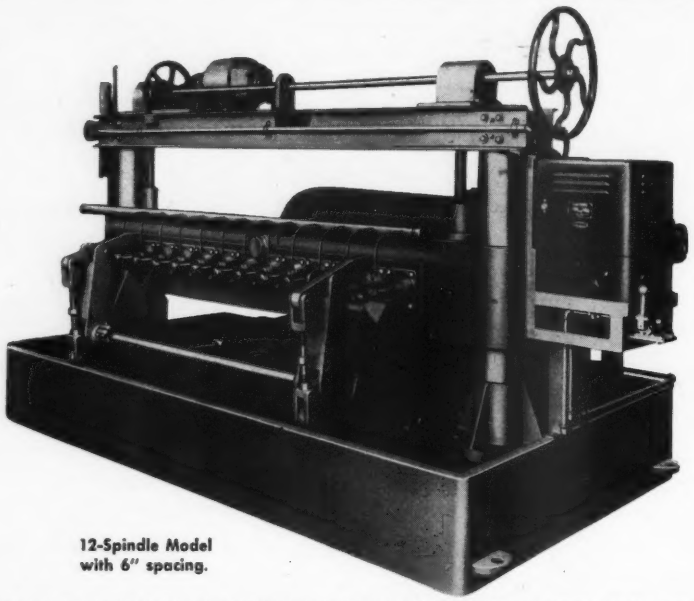

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Del Valle Try New Producer

Superior Oil Co. and British-American Oil Prod. Co. have added a completed Black No. 1A in Sec. 13 4n-18w in the Del Valle area at 2420 ft. for 106 barrels of 23.8 gravity crude daily. No. 6 is drilling at 1944 ft. Bankline Oil Co. is drilling at 1770 ft. with Black No. 1. Foundation is built for No. 105.

Turnbull Try Drills Deeper

On the William Rowland Estate in Turnbull Canyon, Morton & Sons is drilling deeper below 7300 ft. with No. 3-2 in Sec. 16-2s-10w., Los Angeles County.

Los Angeles Try Drilling

Richfield Oil Corp., Boyle Comm. No. 33-1 in Sec. 31-1s-12w in the East Los Angeles area is making hole ahead at 5589 ft. U. P. Unit No. 3 in Sec. 16-2s-1w is drilling at 3783 ft.

Santa Fe Springs Project Fishing

A drill pipe fish has interfered with normal drilling activity at Standard Oil Co.'s Carmenita Comm. No. 1 in Sec. 4-3s-11w in Santa Fe Springs area. Bottom is 9595 ft. Top of fish is 9070 ft.

Petrol Corp. At Lawndale

The Petrol Corp. has increased its holdings in the Los Angeles Basin by the purchase of the Smith Petroleum Co. property in the old Lawndale area. Plans call for deepening a number of wells on the property.

El Segundo Try Reaming

Standard Oil Co., Operator, Six Companies Fee No. 2 in Sec. 2-3s-15w in the El Segundo area is reaming, after a number of formation tests at various intervals. Total depth is 6909 ft.

Coastal and Northern District

Oxnard Well Nears Finish

Hot water circulating system is being completed for Exeter Oil Co., Ltd., Livingston No. 1 in Sec. 6-1n-1w near Sturges and Wolff Roads in the Oxnard area. Total depth is 4073 ft., with casing set at 2728 ft.

Monterey Test Drilling Ahead

C. C. M. O. Co. last was reported drilling ahead at a depth of 7500 ft. with its San Ardo No. 6-G-1 in Sec. 4-23s-10e in the San Ardo area of Monterey County. Texas Co. has cellar excavated for Aurignac No.2 in Sec. 4-23s-10e. The company recently wrote off its Cooper No. 1 in Sec. 19-21s-9e in the San Lucas area as a duster at 3094 ft.

Half Moon Bay Active

New activities are noted in the Half Moon Bay area in San Mateo County. E. T. Willard has location staked for No. 1 and No. 3 in Sec. 15-6s-5w. His No. 2 stands idle at 2100 ft., awaiting heavier equipment to carry the hole deeper.

Elk Hills Oil Pool, meantime, found getting into old hole a practical impossibility with No. 1 in Sec. 14 and is drilling new hole alongside at 950 ft. The area is located about 25 miles south of San Francisco.

W. Mountain Adds Producer

Los Nietos Co. & Lucy Smith Battson have completed C. & H. No. 2 in Sec. 23-3n-21w in the West Mountain area, west of the South Mountain field. Output is 125 bbls. of 20 gravity oil from 5051 ft., cutting 25 per cent. Freeman Fairfield is drilling Richardson No. 1 in Sec. 23-3n-21w below 2750 ft. in sand and shale.

Elwood Lists New Wildcat

Two miles north of the Elwood field, Frederic Salathe, Jr., has location staked for North Elwood-Doty No. 1 in Sec. 11-4n-29w. Site falls in the vicinity of the Southern Pacific right-of-way and the famed Elwood ranch.

Dixon Try Runs Pipe

Following an electric log run, Amerada Petroleum Corp. has cemented casing in its Ernest Wineman No. 1 gas test in Sec.35-6n-2e in the Dixon area, Solano County. Total depth is 4795 ft. Location for No. 2 has been made in Sec. 27.

Madera Try Drills On

Thomas M. Blake, widely known producer, is drilling Chuck No. 1 in Sec. 28-10s-17e in the Madera area of Madera County in schist around 3700 ft.

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Solano Test Ends Search

In the Rykers area of Solano County, Peter Cook, Jr., has given up his Upper Unit No. 2 gas prospect in Sec. 15-5n-3e at 5000 ft. The green sand was logged at 4008, Capay at 4180, and the Hamilton 4634 ft.

Casmalia Try Continues On

With the pattern of events to present depth more or less conventional, General Petroleum Corp. continues to prospect ahead at 3260 ft. with its Goodwin No. 1 near Casmalia in Sec. 10-9n-35w, Santa Barbara County.

Rio Vista Test Drills

Shell Oil Co., Inc., Dozier-Pressely No. 1 in Sec. 16-3n-2e in the Rio Vista area is drilling below 7100 ft. In the Kirby Hills, Wagenet No. 1 in Sec. 30-30s-26e is drilling at 2825 ft.

Humboldt Test Rigging Derrick

Texas Co. is rigging derrick for Anderson No. 1 in Sec. 8-2n-1e near Hydesville, Humboldt County. Stephani No. 1 in the Dixon area, Yolo County, is drilling at 3420 ft.

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2 acre tank farm, 4 miles from Long Beach, with 9 tanks; total capacity 14,750 bbls.; has 2 truck loading racks and loading rack on Southern Pacific spur. Price $13,000. Dutch Bandringa, Broker, 741 Compton Blvd., Clearwater, telephone MEtcalf 3-2910. tf

Ojai Try Stands Idle

Fillmore Drilling Co.'s Ojai No. 1 in Sec. 12-4n-22w in the Ojai area, Ventura County is standing idle. The hole was carried to a total depth of 2461 ft. before being plugged back to 1610 ft.

Yolo Try Grading

Ground is graded for General Petroleum Corp., Gallenkamp No. 1 in Sec. 10-6n-3e in the Courtland area of Yolo County. Llano Seco No. 1 in Sec. 33-20-1w is cleaning out, with bottom at 5358 ft.

Rincon Prospect Explores Ahead

Drilling sand and shale at 3575 ft. was the last report from Honolulu Oil Corp., Honolulu - Signal - Bates No. 1 in Sec. 36-4n-25w in the Rincon area.

Capitan Test Starts Drill

Rothschild Oil Co., which in recent months has widened its field operations, has spudded Orella No. 1 in Sec. 31-5n-30e in the Capitan area and has reached 732 ft.

Gato Ridge Job Inactive

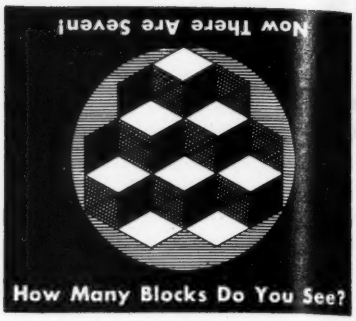
Barnsdall Oil Co., No. 17 in Sec. 9-8n-32w on the Tognazzini lease in the Gato Ridge field is idle at 3501 ft. The company has discovered a new pool in Beauregard Parish, Louisiana. Yield on a drill-stem test for 20 minutes was 46 gravity oil at the rate of one barrel a minute. The discovery was made in the Cockfield sand.

Los Alamos Try Reconditioning

Whittier Associates, Barham No. 3 in Sec. 11-7n-32w in the Los Alamos area is cleaning out, after plugging back from a total depth of 6870 to 6575 ft.

Camarillo Try Making Progress

Wildcat efforts of The Texas Co. in the Camarillo area continue to make headway. The test, Broome No. 1 in Sec. 29-1n-20w, is drilling hard sandstone at 2426 ft.



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San Joaquin Valley

elridge b Fishes

Drill collar bit is the object of fishing job at Belridge Oil Co., o. 62-W-33 in Sec. 33-28s-21e in e South Belridge area of Kern ounty. Total depth is 13,950 ft. eantime, Richfield Oil Corp. erry No. 1 in Sec. 30 is making eady progress with the drill below 50 ft. Sec. 8-29s-21e is the scene an abandonment. The test, onsored by Clyde Oil Co., went a bottom of 3909 ft., before giving the search. Top brown shale as placed at 3628 ft.

dison Well epairs Pump

Oceanic Oil Co. has pulled tubing d is repairing pump on its Osrne No. 1 in Sec. 15-30s-29e in e Edison field. Hole is bottomed 3728 ft., with schist top placed 3570 ft. Monterey Exploration is rilling at 2560 ft. with Duff No. 10 the section.

McKittrick Try Drills Hard Shale

General Petroleum Corp., whose xpansion in all directions includes cheduled construction of the first eight-unit building to be erected downtown Los Angeles in 10 ears, is making steady progress hrough hard shale at 6252 ft. with s Hall-Baker No. 66-4 wildcat test Sec. 4-30s-21e in the McKittrick rea.

View Test Swabbing

L. S. Gilmour is swabbing for roduction from holes perforated etween 4498 and 4518 ft. in Corey No. 53 in Sec. 13-30s-28e at Mountain View. Total depth is 4614 ft. with casing set at 4613 ft.

Edison Wildcat Starting Work

Operations of Los Nietos Prod. & ef. Co., Cauzza-Portals No. 1 in ec. 31-29s-29e in wildcat country ear the Edison field have proceeded to a point where sump has been ig.

Arvin Test Going Deep

Western Gulf Oil Co. is preparing to carry on down from 6104 ft., its No. 1 wildcat test on the Di Giorgio Ranch in Sec. 10-31s-29e near Arvin in Kern County.

Grapevine Job Ready For Test

Having gun-perforated at 5310-5345 ft., Reserve Oil & Gas Corp., is ready to inaugurate production tests of its No. 1-A-21 in Sec. 21-11n-19w in the Grapevine area of Kern County. Total depth is 5383 ft. and casing is cemented at 5380 feet.

Pyramid Hills Test Fishing

With hole bottomed at 918 ft., Ridge Petroleum Corp. is fishing with its No. 13 wildcat in Sec. 17-24s-18e in the Pyramid Hills, Kings County.

Ten Section Try Drilling

After effecting water shut of casing set at 9528 ft., Shell Oil Co., Inc., is ready to drill ahead with its KCL-A No. 53-30 in Sec. 30-30s-26e in the Ten Section area.

Round Mountain Try Abandoned

Petrol Corp. has given up at 2360 ft. its KCL-Claire No. 1, a prospect job in Sec. 13-28s-28e in the Round Mountain area. Bottomed in gray sand, the try found the Pyramid Hills formation at 2242 ft., and topped the Vedder at 2347 ft.

Blackwells Corner Well Running Pipe

Hamilton and Sherman's No. B-1 in Sec. 18-26s-19e in the Blackwells Corner area is running 7-inch pipe to set at 945 ft., immediately above an oil sand measure. Total depth is 1070 ft. Beer No. 7 in Sec. 19 is rigging to pump from 1270 ft.

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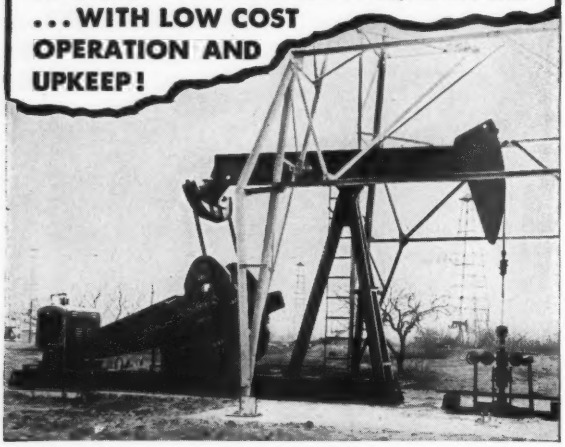

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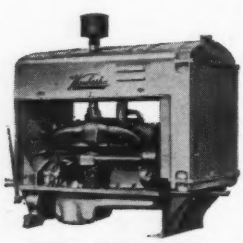

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Helm Try Rigging Up

In wildcat ground near the Hel field, Union Oil Co. is rigging de rick to start the drill in SPL N 75-19 in Sec. 19-16s-17e, Fres County.

South Dome Test Drills

In the South Dome area of Ke tleman Hills, Tide Water Asso ated is making hole below 3050 with Fee No. 65-18 in Sec. 18-2 20e, Kern County. M. & S. No. 1 in Sec. 29-28s-28e in the McKittri area recovered all water on form tion test of the interval at 497 5070 ft. Total depth is 5753 ft. T Eocene was cored at 5590 ft.

Kettleman Hole Deep

Standard Oil Co., No. 73-30V Sec. 30-23s-19e in the Middle Do area of Kettleman Hills continu to prospect ahead at 11,808 ft. hard shale. This project mar Standard's deepest project in t state, at the present time. The w to date has promised much in t way of eventual production. Bol Chica Oil Corp. shares in the pla

In the Sheep Springs area, t company's wildcat, W. P. No. 4 33W in Sec. 33-29s-21e is drilli at 6299 ft.

Turk Anticline Try Spot Cores

On the Turk Anticline, Superi Oil Co., is spot coring at 9617 with its K. C. D. No. 1 in Sec. 1 17s-16e, Fresno County.

Incidentally, this California ope ating organization has set a ne Oklahoma depth record with No. 51-11, an exploratory ventu five and one-half miles north Fort Cobb, Caddo County. The o state record of 14,582 ft. was passe and drilling continued ahead. T old record for depth in Oklaho was held by Continental Oil Co. Proctor No. 1, which started August, 1938, and abandoned December, 1939. When abandon it was the second deepest test the world.

squoc Well gs To Resume

Union Oil Co. is rigging to re- operations in its Sisquoc No. n Sec. 2-8n-21w in the Sisquoc a. Present depth is 5438 ft.

---

t Canyon ell Comes In

Union Oil Co. has completed Bell 43 in Sec. 27-9n-33w in the Cat nyon field at 6135 ft. for an ini- output of 289 barrels of oil a , cutting slightly. No. 45 is drill- at 5120 ft. Blochman No. 12 is undation.

n Sec. 22, Krieger Oil Co. is ding for No. 1 and has locations de for No. 2, No. 3 and No. 4. os Verdes Estates No. 5 in Sec. is drilling in chert at 5970 ft.

---

w Location Hopper Canyon

Commander Oil Co. has location ked for No. 8F in Sec. 13-4n-19w the Hopper Canyon field, Ven- a County. Work on the project expected to begin in the near ture.

---

irview Test ills and Cores

Tide Water Associated Oil Co. is illing ahead and spot coring with rris No. 2 in Section 8-6s-10w in Fairview area, Orange County. esent depth is 6280 ft. Electric log s run to 6158 ft.

---

rdoo Wildcat ospects Ahead

Near Chino in San Bernardino unty, Grayco Oil Co. is prospect- g on down at a depth of 3660 ft. tth Mahla No. 1 in Sec. 13-3s-8w.

---

calitos Try gging Pump

Wilshire Oil Co. is rigging to mp its No. 81-28e, an explorer in c. 28-21s-15e in the Jacalitos area, esno County. The well went to original depth of 3777 ft. and s plugged back to 3419 ft. and cKittrick in Kern County, Wil- re has location staked for McKit- ck No. 2 in Sec. 12-30s-21e.

TIME TO CHECK YOUR DEHYDRATION

	Yes	No	Don't Know
Are you using the right grade?	☐	☐	☐
Are you using the right amount?	☐	☐	☐
Are you operating efficiently?	☐	☐	☐

If your dehydration doesn't meet your needs 100%, we'll gladly give you expert advice based on your individual requirements. No obligation. Just drop a card to

NOBS DEHYDRATING CORPORATION
2465 East 53rd St., Los Angeles 11, Calif.

Miramonte Try Setting Record

Pacific Western Oil Corp. has made about 16,050 ft. of hole in 186 days with its National Royalties No. 1 in the Miramonte area, east of the Lost Hills field. Located in Sec. 5-26s-22e, this is a new depth record for a California contract job. Loffland Brothers are in charge.

Tulare Lake Well Testing

Having tested wet on holes shot at 13,000 ft., Kings County Oil Co. has squeezed its von Glahn No. 1 in Sec. 4-23s-22e in the Tulare Lake area, Kings County, and has perforated around 12,700 ft. for further questioning. Total depth is 13,213 feet.

Kings Exploration Co., Avenal No. 1 in Sec. 18-23s-17e in the Reef Ridge wildcat area is drilling at 3209 ft.

Ant Hill Well Spuds

Seaboard Oil Co. has spudded Seaboard-Richfield No. 76-36 in Sec. 36-29s-29e in the Ant Hill area and at last reports was making rapid time with the drill in surface formations. The company's Seaboard-Bandini No. 3-12 in Sec. 21-28s-20e in the Bacon Hills area is drilling at 1250 ft. SWUM-BVA No. 73-14 in Sec. 14-32s-25e near Buena Vista Lake has plugged back from a total depth of 12,714 ft. in hard shale to 7453 ft. The next move will be to gun-perforate and interrogate Pliocene gas sand indicated on electric log between 7000-7020 ft. If reaction from this interval is unfavorable, the project will be abandoned. Continental Oil Co., BVA No. 1 in Sec. 8-32s-25e, also a Buena Vista Lake try, is making hole in hard shale at 9960 ft.

Arvin Job Now Tests

O. F. Darling, McNear No. 1 in Sec. 1-31s-29e in the Arvin area is testing water shut off on casing set on bottom at 2600 ft.

Cole Appointed Distributor For the Refinery Company

The Cole Instrument Company of Los Angeles and San Francisco have just been appointed the exclusive representatives for The Refinery Supply Company of Tulsa. Oklahoma.

The Refinery Supply Company are one of the leading manufacturers of oil and gas testing equipment. Among their many items now offered to California oil operators are the following: R. S. Yel-O-Bak Thermometers, Dead Weight Testers, Dew Point Testers, Moisture Testers, Recording Gravitometers with automatic temperature compensators, R. S. Streamlined Hydrometers, Specific Gravity Bombs, Vapor Pressure Bombs, Corrosion Test Bombs, and Gas Gravity Balances.

Mr. F. H. Cole is President of Cole Instrument Company and Mr. H. L. Naylor is Sales Manager. Their offices in Los Angeles are at 1310 South Grand Avenue and in San Francisco at 7 Front Street.

Nineteeners

(Continued from Page 9)

Edwards Company tied for the fourth spot at 144 net. Al Jensen of the Westen Pipe & Steel Company and Henry Paulsen of the Norwalk Company were tied for the sixth place. Harold Davis of the Richfield Oil Corporation and Johnny Johnson of the Machinist's Tool & Supply Company tied for eighth place. Some of the heavy sluggers like Holly Hayter of the Associated Oil, Percy Hayes of the Universal Consolidated and John Lucas of the Southwest Welding & Mfg. Company seemed to have a little trouble hitting the small greens. Needless to say, all the rest of the forty players were in there pitching. Poor old "Tut" Tuttle of the Standard Oil Company broke a bone in his leg about a week before the tournament, but this did not keep him home. In fact he was the enthusiastic gallery and was hobbling from green to green. On Friday night the Stockdale Club put on a big feed for the boys and on Saturday night the Bakersfield Inn did the same. For those that might not know, the Nineteeners was organized way back in September 1933 by a small group of golfers, mostly connected with the oil business or its allied industries. Its purpose was to mold a little gang of congenial, good fellows, to play golf and have a good time once a month.

Evidently from the fact that 157 consecutive monthly gatherings have been held, the boys must have enjoyed some good times.

To Big Jay Perrin of the Towlsaver, Inc. goes the honor of being its first Big Shot, and to him and his first board of directors, the Nineteeners are deeply indebted.

Now that the 13th Annual is over plans have already been started on the 14th Annual in October 1947.

John I. Johnstone, 60, for the past 10 years secretary of Hickey Pipe and Supply Co., died at the Compton Hospital from pneumonia. Before joining Hickey, he was with the old Inca Oil Co. in Coalinga, and Baker Oil Tool Co. both in the Fresno County oil city and Huntington Park.

Severns Completing Deep Test Near Tulare Lake

Demonstrating anew the practical and ready talent of a power outfit to successfully drill wells deep down, this type rig carried Kings County Oil Co.'s von Glahn No. 1 test to a total depth of 13,213 ft., under the expert guidance of Severns Drilling Co., the contractor. Location, in Sec. 4-23e-22e, is near Tulare Lake in Kings County. The performing rig is the widely known National Supply Co. No. 100 Ideal Consolidated outfit. Three L.R.O.U. Waukesha engines are on the job.

Originated in 1940 by Elmer von Glahn, oil developer and owner of extensive agricultural land, the well stood idle for five years at 9500 ft., until the present operating organization took over last April. Shortly thereafter, contract was let to Severns and cleanout operations inaugurated.

Technically, a power rig is capable of establishing an equivalent in hole to the limit of the horsepower developed by internal combustion. One of its chief attractions is the fact that it is far less expensive to operate than steam equipment.

Notwithstanding, the opinion rife among some operators that power rigs do not qualify or measure up in drilling deep, these outfits have shown a distinct liking for going to 12,000 and even 15,000 feet. There has been but little occasion to ask power rigs to travel this deep in California. Producing depths in most areas in the state are comparably shallow.

The test again stood idle at a depth of 12,008 ft. in a period extending from the latter part of August until mid-September, when Severns resumed operations and set 7-inch casing at 12,005 ft., with 650 sax of high-temperature cement. Showings uncovered around 10,000 ft. were cased off.

Engineering practice gained a new twist in the casing of the well. The string was made up of 500 ft. of 23 pound, 4500 ft. of 29 pound, with the balance 35 pound 7-inch pipe. The 35 pound casing is represented at both top and bottom of the hole. The 4½-inch blank liner is set from bottom up and 165 ft. in to the pi cemented at 12,005 ft.

Regardless of the outcome of t test, the drilling of the well reflec the consummate skill and ingenui of the Severns organization, whi has cased and brought the job the finishing stage in keeping wi the highest standards of mechanic perfection. Ralph D. Disher is su erintendent, and M. I. Fillmore, too pusher.

To complete the story of th project some mention must be mad of its sponsors, who are farme and hardy sons of the soil residin in fertile country in the vicinity the drill site. Due to the great co and hazard associated with drillin deep holes it is usually a major o erating organization that must tak the necessary risk and bear the brun of backing these expensive jobs. Th von Glahn venture, however, is a d parture from normal field practi and at this writing the well give the confident agriculturalists muc to support hopes that a new and im portant oil discovery is about to b scored.

Kings County Oil Co. maintain offices in Corcoran, a town abo nine miles from the drill site.

A Correction

"In the engraving of the table 'Physical Constants of Low Boilin Hydrocarbons and Miscellaneou Compounds' presented by W. Hanna and Robert Matteson in th second issue of the September num ber of California Oil World, th following modification should b noted. The calorific values are give at 77°F. but the volumes are on 60° basis. In other words, the cub foot of gas and the gallon of liqui referred to are measured at 60°F."

H. E. Bramston-Cook has bee appointed general sales manager o Oronite Chemical Co., a Standar of California Chemical subsidiary Formerly manager of technical prod ucts sales for another oil company Bramston-Cook served in the Nav during the war as a line captain He is widely known in the oil in dustry for his manufacturing, re search and sales activities.